Ohio **Grade 7**

LineUp With Math™ Alignment
Academic Content Standards - Mathematics
Grade-Level Indicators

Measurement Standard

Measurement Units

Grade-Level Indicator	***LineUp With Math™* Activities**
1. Select appropriate units for measuring derived measurements; e.g., miles per hour, revolutions per minute.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Use Measurement Techniques and Tools

Grade-Level Indicator	***LineUp With Math™* Activities**
4. Solve problems involving proportional relationships and scale factors; e.g., scale models that require unit conversions within the same measurement system.	--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.
5. Analyze problem situations involving measurement concepts, select appropriate strategies, and use an organized approach to solve narrative and increasingly complex problems.	--Choose and apply a variety of strategies to optimize the solution of air traffic control conflicts.

Patterns, Functions and Algebra Standard

Analyze Change

Grade-Level Indicator	***LineUp With Math™* Activities**
10. Analyze linear and simple nonlinear relationships to explain how a change in one variable results in the change of another.	--Use an interactive simulator to identify distance, rate, time conflicts in air traffic control problems and resolve the conflicts by varying plane speeds or changing plane routes.
11. Use graphing calculators or computers to analyze change; e.g., distance-time relationships.	--Use an interactive simulator to identify distance, rate, time conflicts in air traffic control problems and resolve the conflicts by varying plane speeds or changing plane routes.